

GIP, human

Cat. No.:	HY-P0276
CAS No.:	100040-31-1
Molecular Formula:	C ₂₂₆ H ₃₃₈ N ₆₀ O ₆₆ S
Molecular Weight:	4983.6
Sequence:	Tyr-Ala-Glu-Gly-Thr-Phe-Ile-Ser-Asp-Tyr-Ser-Ile-Ala-Met-Asp-Lys-Ile-His-Gln-Gln-Asp-Phe-Val-Asn-Trp-Leu-Leu-Ala-Gln-Lys-Gly-Lys-Lys-Asn-Asp-Trp-Lys-His-Asn-Ile-Thr-Gln YAEGTFISDYSIAMDKIHQQDFVNWLLAQKGKKNDWKHNITQ
Sequence Shortening:	YAEGTFISDYSIAMDKIHQQDFVNWLLAQKGKKNDWKHNITQ
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 25 mg/mL (5.02 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
		1 mM	0.2007 mL	1.0033 mL
		5 mM	0.0401 mL	0.2007 mL
		10 mM	---	---
Please refer to the solubility information to select the appropriate solvent.				

BIOLOGICAL ACTIVITY

Description	GIP, human, a peptide hormone consisting of 42 amino acids, is a stimulator of glucose-dependent insulin secretion and a weak inhibitor of gastric acid secretion. GIP, human acts as an incretin hormone released from intestinal K cells in response to nutrient ingestion ^{[1][2][3]} .
In Vitro	Gastric Inhibitory Polypeptide (GIP) exerts various peripheral effects on adipose tissue and lipid metabolism, thereby leading to increased lipid deposition in the postprandial state ^[1] . GIP, human plays a vital role in lipid metabolism and the development of obesity. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Toxins. 2021, 13(8), 512.

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REFERENCES

- [1]. Meier JJ, et al. Gastric inhibitory polypeptide: the neglected incretin revisited. Regul Pept. 2002 Jul 15;107(1-3):1-13.
- [2]. Miyachi A, et al. Quantitative analytical method for determining the levels of gastric inhibitory polypeptides GIP1-42 and GIP3-42 in human plasma using LC-MS/MS/MS. J Proteome Res. 2013;12(6):2690-2699.
- [3]. Gabe MBN, et al. Molecular interactions of full-length and truncated GIP peptides with the GIP receptor - A comprehensive review. Peptides. 2020;125:170224.
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Caution: Product has not been fully validated for medical applications. For research use only.

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